

DATA STORAGE DEVICE AND DATA SAVING METHOD THEREOF

ABSTRACT

5 A data storage device is applied to store digital medium data by using the DRAM to replace the flash memories for data storage. The data storage device comprises an interface converter used for transforming an interface of a flash memory into an interface of a dynamic random access memory. The interface converter is connected to a dynamic random access memory for storing the data stored in the data storage device. Further, the data
10 storage device also comprises a battery capacity detector used to detect the capacity of a battery connected with the data storage device and deliver a signal representing the battery capacity into a controller. When the battery capacity detector detects the battery capacity reaching a pre-determined low electricity margin, the residual electricity is saved for the dynamic random
15 access memory to operate the saving of the data and the high power-consuming components in the circuit are stopped.

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